Available online at www.sciencedirect.com

SCIENCE DIRECT®

Geoderma 127 (2005) 305–306

GEODERMA

www.elsevier.com/locate/geoderma

Contents Volume 127, 2005

Research papers

Multimethod study of the degree of humification of humic substances extracted from different tropical soil profiles in Brazil's Amazonian region
A.H. Rosa, M.L. Simões, L. Camargo de Oliveira, J.C. Rocha, L.M. Neto and D.M.B.P. Milori 1

Stocks and fluxes of soil organic carbon for landscape units in Belgium derived from heterogeneous data sets for 1990 and 2000
S. Lettens, J. Van Orshoven, B. van Wesemael, B. De Vos and B. Muys 11

Natural and anthropogenic patterns of covariance and spatial variability of minor and trace elements in agricultural topsoil
J. Spijker, S.P. Vriend and P.F.M. van Gaans 24

NaOH and $Na_4P_2O_7$ extractable organic matter in two allophanic volcanic ash soils of the Azores Islands—a pyrolysis GC/MS study
K.G.J. Nierop, P.F. van Bergen, P. Buurman and B. van Lagen 36

Evaluation of soil water retention curve with the pore–solid fractal model
G. Huang and R. Zhang 52

Determination of the total nitrogen deposition by the ^{15}N isotope dilution method and problems in extrapolating results to field scale
R. Russow and F. Böhme 62

The role of phytolith formation and dissolution in controlling concentrations of silica in soil solutions and streams
V.C. Farmer, E. Delbos and J.D. Miller 71

Impact of the degree of secondary transformation on acid–base properties of organic compounds in mucks
Z. Sokołowska, L. Szajdak and D. Matyka-Sarzyńska 80

Soil heavy metal contamination and acid deposition: experimental approach on two forest soils in Hunan, Southern China
B. Liao, Z. Guo, A. Probst and J.-L. Probst 91

Properties of black soil humic acids from high altitude rocky complexes in Brazil
V. de Melo Benites, E. de Sá Mendonça, C.E.G.R. Schaefer, E. Henrique Novotny, E. Lázaro Reis and J. Carlos Ker 104

Clay mineralogy of the soils in the south Ecuadorian páramo region
W. Buytaert, J. Sevink, B. De Leeuw and J. Deckers 114

Changes in the molecular composition of ester-bound aliphatics with depth in an acid andic forest soil
D.F.W. Naafs, K.G.J. Nierop, P.F. van Bergen and J.W. de Leeuw 130

Impact of soil microstructure on the molecular transport dynamics of 1,2-dichloroethane
Y.O. Aochi and W.J. Farmer 137

Point and parameter pedotransfer functions for water retention predictions for Danish soils
C.D. Børgesen and M.G. Schaap 154

Rapid communication

Texture and organic carbon relations described by a profile pedotransfer function for Brazilian Cerrado soils
Y.L. Zinn, R. Lal and D.V.S. Resck 168

Special Issue

Abundance and functions of natural organic matter species in soil and water

Edited by

P.A.W. van Hees, U.S. Lundström and H. Borén

Preface 175

Research papers

Storm flow flushing in a structured soil changes the composition of dissolved organic matter leached into the subsoil
K. Kaiser and G. Guggenberger 177

Old organic carbon in soil solution DOC after afforestation—evidence from ^{14}C analysis
E. Karltun, A.F. Harrison, A. Alriksson, C. Bryant, M.H. Garnett and M.T. Olsson 188

Functional characterization of soil organic matter fractions different in solubility originating from a long-term field experiment
M. Kaiser and R.H. Ellerbrock 196

Status of humus in soil under various long-term tillage systems
A. Slepetiene and J. Slepetys 207

Changes in soil organic matter composition and quantity with distance to a nickel smelter — a case study on the Kola Peninsula, NW Russia
E. Viventsova (Ruth), J. Kumpiene, L. Gunneriusson and A. Holmgren 216

Importance of canopy herbivores to dissolved and particulate organic matter fluxes to the forest floor
B. Michalzik and B. Stadler 227

EPR characteristics of heat treated complexes of metals with demineralised humic brown coal in air and ammonia atmospheres
I. Golonka, F. Czechowski and A. Jezierski 237

Influence of soil moisture on concentrations and ^{13}C NMR profiles of lipids in three Albeluvisols
E.D. Lodygin and V.A. Beznosikov 253

Assessing centrifugation technique for obtaining soil solution with respect to leaching of low molecular mass organic acids from pine roots
K. Nambu, P.A.W. van Hees, S.A. Essén and U.S. Lundström 263

Influence of humic substances on phosphate adsorption by aluminium and iron oxides
O.K. Borggaard, B. Raben-Lange, A.L. Gimsing and B.W. Strobel 270

Modelling of aluminium chemistry in soil solution of untreated and dolomite treated podzolic soil
S.J.M. Holmström, P.A.W. van Hees and U.S. Lundström 280

Modelling Al competition for heavy metal binding by dissolved organic matter in soil and surface waters of acid and neutral pH
E. Tipping 293

Contents Volume 127, 2005 305